## Ransdell Silt Lean 82-ID-0564 (821D-009-11)

Classification: coarse-silty, mixed, nonacid, frigid Typic Haplaquepts.

## General Site Characteristics

Location: Benewah County, Idaho; 460 feet east and 1450 feet south of northwest

corner of sec. 20, T. 46N., R. 1E.; approx. 1 mi. NN of St. Joe, Idaho.

Forest:

Area: St Jee SSA

Described By/Date: Soil Conservation Service personnel on October 13, 1982

Parent Rock/Material: alluvial sediments Habitat Type: pasture grasses, forbes, clover

Topography: nearly level

Landferm: fleed plain Weathering:

Formation Name: Slene:

Aspect:

Elevation: 2133 feet

Soil Depth:

Eff. Rooting Depth:

Litter Type:

Surface Rock:

Climate:

Precipitation: Eresien: Infiltration:

Permeability: moderate

Storage:

Drainage: very poorly

Air Temp:

Soil Temp at 20 inches:

Salt/Alkal:

Remarks:

## Pedon Description

8-15 cm. Light brownish gray (2.5Y 6/2) silt loam, dark grayish brown (2.5Y 4/2) noist; weak fine subangular blocky structure parting to weak fine and nedium granular structure; slightly hard, friable, slightly sticky and slightly plastic; very strongly acid pH 5.8; many very fine, fine, and medium roots; many very fine and fine, few medium tubular pores; ci2d dark brown (18YR 3/3) and dark yellowish brown (18YR 3/4) and dark brown (7.5YR 3/4); clear wavy boundary.

15-28 cm. Light brownish gray (2.5Y 6/2) silt loam, dark grayish brown (2.5Y 4/2) moist; weak fine and medium subangular blocky structure; slightly hard, friable, slightly sticky and slightly plastic; strongly acid pH 5.1; common very fine, fine, and medium roots; common very fine and fine twholar pores; discontinuous thin (1 in.) band of darker silt loam material very dark brown (1878 2/2) moist; few iron stains concentrated along root channels; common very fine mica flakes; clear wavy boundary.

## 82-ID-0564 (continued)

- Bg2 28-71 cm. Light brownish gray (2.5Y 6/2) silt loam, dark grayish brown (2.5Y 4/2) moderate medium and coarse subangular blocky structure; slightly hard, friable, slightly sticky and slightly plastic; strongly acid pH 5.4; common very fine, few fine and medium roots; common very fine and fine tubular pores; few iron stains concentrated along root channels; clear wavy boundary.
- Bg3 71-91 cm. Light gray (2.5Y 7/2) silt loam, grayish brown (2.5Y 5/2) moist; moderate medium and coarse subangular blocky structure; slightly hard, friable, slightly sticky and slightly plastic; strongly acid pH 5.4: common very fine, few fine roots; few very fine and fine tubular pores; two inch bands of darker dark brown (10YR 3/3) moist silt loam material possibly old root channels; abrupt wavy boundary.
- Bgt4 91-140 cm. Light gray (2.5Y 7/2) silt loam, grayish brown (2.5Y 5/2) moist; moderate medium and coarse subangular blocky structure; hard, firm, slightly sticky and slightly plastic; moderately acid pH 5.7; few very fine and fine roots; few very fine, fine, and medium tubular pores; few thin and moderately thick clay films lining pores; compacted soil material; textural Bt horizon not an argillic; gradual wavy boundary.
- Bgt5 i40-158 cm. White (2.5Y 8/2) silt leam, light brownish gray (2.5Y 6/2) moist; moderate medium and coarse subangular blocky structure; hard, firm, slightly sticky and slightly plastic; moderately acid pH 5.9; few very fine and fine roots; few very fine, fine, and medium tubular pores; few thin and moderately thick clay films lining pores; compacted soil material; textural Bt horizon not an argillic.

Peden: Ransdell Silt Loam 82-ID-8564 (82ID-889-11)

Date: June 1984

M		* - AL	_11	rc+4.4	¥ 11.4	:1-k1.		Sesqu	piexides		Chadia
Sample No.	Herizen	Depth	pH paste	EC#10	Z Water at Saturation	Available	Di-Citrate Fe	Extract Al	Pyrophosphate Fe	Extract Al	Spedic
		CM		mnhes/cm		ppn	Armigum Arministra		7		pe bud damagin kut magapa
1 2 3 4 5 6	A Bgi Bg2 Bg3 Bg t 4 Bg t 5	0- 15 15- 28 28- 71 71- 91 91-140 140-158	5.0 5.1 5.4 5.7 5.9	0.26 0.16 0.11 0.10 0.09 0.12	69 80 63 63 47 46	1.6 3.3 3.6 3.1 8.6 0.6					

Sample No.	Exchangeable Ions			Ext. Acidity	CEC	Base	МО	OC	N	C:N	Soil		
RO.	Ca	Kg	Na	K	Н		Saturation					Fraction	NaF pH
meg/100 gms							Z		Z	ratio	· · · · · · · · · · · · · · · · · · ·		
12345	3.3 3.9 5.2 7.9 3.6	1.3 1.3 3.5 2.8	8.2 8.3 8.4 0.2	8.1 8.1 8.1 8.2	15.8 18.0 12.2 11.5 7.9 7.1	18.6 12.3 13.8 12.5 18.5 13.0	20 20 36 51 46 59	5.69 4.73 2.18 1.85 0.52 0.48	3.31 2.75 1.27 1.07 0.30 0.28	8.241 8.207 0.890 0.102 0.034 9.043	14 13 14 10 9	i.00 i.00 i.00 i.00 i.00	8.7 8.9 8.8 8.5 8.6 8.5

Remarks: CEC's were leached 18% acidified NaCl.
CEC's and nitrogens were run by steam distillation.
Extractable cations were run on the Jarrell Ash atomic absorption.

Analysis by: Debbie Eisinger

Pedon: Ramsdell Silt Loam 82-ID-0564 (82ID-009-11) Date: May 1984

			Particle Size Distribution (mm)						Gravel & Stone					
Depth	VCS	CS	MS	FS	VFS	TS	TS	i	TC	>2	AM	Textural		
	2-1.0	1-0.5	0.5-0.25	0.25-0.1	0.1-0.05	2-0.05	0.05-0	.002	<0.002	wt.	vol.	Classes		
CM											-1			
0- 15 15- 28 28- 71 71- 91 91-140 140-158	1.70 0.05 0.01 0.02 0.01 0.05	0.42 0.10 0.05 0.03 0.04 0.03	0.87 0.10 0.04 0.02 0.02 0.02	4.76 0.49 0.40 0.08 0.82 0.69	7.02 2.68 2.61 0.75 2.79 3.40	14.77 3.42 3.12 0.91 3.68 4.17	80.9 83.4 78.1 81.4	94 49 15 41	11.63 15.63 13.40 20.95 14.91 12.95	none none none none none		Silt loam Silt loam Silt loam Silt loam Silt loam Silt loam		
	Sil	t Size Distr	ibution (mm	)			Water 1	Content	Liq	uid	Plastic	Plastic		
Depth	CoSi	Msi		Fsi	Bulk Dens	ity	1/3	15	Lin	it	Limit	Index		
	0.05-0	.02 0.02-0.	005 0.00	5-0.002	Clod C	ore	Bar	Bar						
CM					g/cc		;							
0- 15 15- 28 28- 71 71- 91 91-140 140-158							48.8 57.9 51.3 52.9 37.6 39.4	21.3 27.5 13.7 19.8 12.8 12.9						

Remarks: Samples were run by the centrifuge method, 5% sodium hexametaphosphate added, sonified, and carbonates were not removed.

Analysis by:

Anita L. Falen